

## MEMO TO FILE

**TO: Deepwater Horizon NRDA File**  
**FROM: Deborah French McCay, RPS ASA, South Kingstown, RI, USA**  
**CC: Malcolm (at URI) Spaulding, Daniel Mendelsohn, Zhengkai Li, Deborah Crowley, Andy Bird, Branden Blum, Daniel Hahn**  
**SUBJECT: Data Source for Blowout Modeling Analysis – Daily Dispersant Application Volumes**  
**DATE: August 26, 2015**

The following technical report and described analysis therein rely on daily estimates of volumes of subsea dispersants applied to the blowout plume from the Deepwater Horizon well riser pipe.

Spaulding, M.S., D. Mendelsohn, D. Crowley, Z. Li, and A. Bird, 2015. Technical Reports for Deepwater Horizon Water Column Injury Assessment – WC\_TR.13: Application of OILMAP DEEP to the Deepwater Horizon Blowout. RPS ASA, 55 Village Square Drive, South Kingstown, RI 02879, August 2015.

The subsea dispersant volumes were obtained from an Excel workbook sent to us by George Graettinger of NOAA, which was a forwarded email communication from Chris J Olson of BP:

Olson, C. 2013. "Fulfillment NOAA Information Request 332 - Daily logs for subsurface dispersant application". Email communication from Chris J Olson (JMM Mgt; [chris.olson@bp.com](mailto:chris.olson@bp.com)) to Jay Coady and George Graettinger (NOAA; [jay.coady@noaa.gov](mailto:jay.coady@noaa.gov), [George.Graettinger@noaa.gov](mailto:George.Graettinger@noaa.gov)); Feb 18, 2013.  
Attachments:

Dispensed Running Totals BP Log 1800 08172010.xls

Dispensed Running Totals BP Log 0300 06072010 (for NOAA iReq 332).xls

RPS ASA sent questions to BP (prepared by the authors of the blowout report, M.S. Spaulding et al) via Jay Coady, included in the attached Excel file:  
Dispersant\_Questions\_2013Feb22\_(NOAA\_IReq332).xlsx.

BP did answer the question regarding the time zone of the data. However, we never got responses from BP, other than to hear (verbally on a regular Water Column TWG phone call between Trustees and BP) that BP could not answer the other questions. So Spaulding et al relied on these data, as provided, in preparing the Blowout modeling analysis and report.

Below are copies of the emails described.

**From:** Jay Coady - NOAA Affiliate [<mailto:jay.coady@noaa.gov>]  
**Sent:** Tuesday, February 19, 2013 3:36 PM  
**To:** Debbie French McCay  
**Cc:** George Graettinger - NOAA Federal; Jamie Holmes; Jill Rowe; Andy Bird  
**Subject:** Re: Fulfillment NOAA Information Request 332 - Daily logs for subsurface dispersant application

Hi All,

I had a little email traffic today with the providers of the data so I asked them your question. Their answer is that it is **Central Standard time**. Let me know when you get your other questions together and I'll send them along.

Jay Coady

On Mon, Feb 18, 2013 at 12:19 PM, Debbie French McCay <[DFrenchMcCay@asascience.com](mailto:DFrenchMcCay@asascience.com)> wrote:  
Thanks Andy.

I think Jay was collecting questions for BP.

Jay (or George),

Would you ask BP to confirm the time zone for these logs?

Thanks

Debbie

Deborah French McCay, PhD  
RPS ASA

**From:** George Graettinger - NOAA Federal [mailto:[george.graettinger@noaa.gov](mailto:george.graettinger@noaa.gov)]  
**Sent:** Monday, February 18, 2013 2:05 PM  
**To:** Oscar Garcia; Debbie French McCay; Kelly Knee  
**Cc:** Jamie Holmes; Jeremy Fontenault  
**Subject:** Fwd: Fulfillment NOAA Information Request 332 - Daily logs for subsurface dispersant application

Hey All,

Here is the most recent update from BP on the subsurface dispersal running totals. Hopefully these clarify rather than confuse, but I thought I would send them on.

Cheers,  
George

----- Forwarded message -----

**From:** Olson, Chris J (JMM Mgt) <[chris.olson@bp.com](mailto:chris.olson@bp.com)>  
**Date:** Mon, Feb 18, 2013 at 7:22 AM  
**Subject:** Fulfillment NOAA Information Request 332 - Daily logs for subsurface dispersant application  
**To:** [jay.coady@noaa.gov](mailto:jay.coady@noaa.gov), [George.Graettinger@noaa.gov](mailto:George.Graettinger@noaa.gov)  
**Cc:** "Le, Phuong (UNKNOWN BUSINESS PARTNER)" <[Phuong.Le@bp.com](mailto:Phuong.Le@bp.com)>

Dear Mr. Coady and Mr. Graettinger,

In fulfillment of your request for daily logs for subsurface dispersant application, we are attaching the dispersant dispensed running total logs. These raw data logs are being provided to you in the excel spreadsheet format we collected them in, showing the methods that were used to track dispersant application at the time. The logs begin on 4/30/10 with testing information on dispersing and once operational, the logs document injection volumes, rates, as well as comments on an hourly basis. The final dispersant injection was logged 7/15/2010, however, the logs continue monitoring until a final entry on 8/17/10.

**Dispensed Running Totals BP Log 0300 06072010.xls** - a running total starting at the beginning of the response.

**Dispensed Running Totals BP Log 1800 08172010.xls** - a format change to the running totals that began on July 5<sup>th</sup> 2010.

BP identified a small number of apparent discrepancies in the spreadsheet entitled *Dispensed Running Totals BP Log 0300 06072010.xls* of which we wanted to make you aware. First, in Worksheet "Test" 2 in Column G, "Running Total (gal)," the equation contained in some cells in that column was replaced by fixed values. These fixed values appear to result in a discrepancy between the running totals in Column G and the sum of the individual dispersants volumes listed in Column F. Second, the summary table in the Worksheet "Dispersant Summary" contains values that do not appear to match the values in the individual worksheets. For example, in the table below are the values in the "Dispersant Summary" Worksheet as compared to the values in the individual worksheets.

	Summary	Individual Sheets
Test #1	2196	3000
Test #2	16791	8494
Test #1+#2 Cuml.	18987	11494
Test #3	11560	11560
Test #1+#2+#3 Cuml.	30547	23054
Test #4	7222	7222
Total Tests #1 -#4	37769	30276

Regards,  
Chris Olson  
Christopher J. Olson  
FUNCTIONAL LEAD – DATA STEWARD  
GULF COAST RESTORATION ORGANIZATION – IT&S

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*"The information provide herein has been compiled by BP from shared sources of data in the MC 252 Deepwater Horizon Gulf Coast Incident Management Team (GCIMT) and is provided for the convenience of the requester. BP makes no representation as to the accuracy or completeness of the underlying data. This information is not intended for further distribution. If you require an official record of this data, you should seek that directly from the U.S. Coast Guard's response archive."*

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George Graettinger  
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